

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5283.01	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 00/ 25826	International filing date (day/month/year) 21/09/2000	(Earliest) Priority Date (day/month/year) 21/09/1999
Applicant DISCOVERY COMMUNICATIONS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 36.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/25826

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F1/00 H04L9/00 H04L9/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 45491 A (NUVOMEDIA INC) 10 September 1999 (1999-09-10) page 3, line 15 - line 31 page 4, line 9 - line 27 page 6, line 27 -page 7, line 4 page 10, line 1 - line 21 page 11, line 30 -page 12, line 28 ---	1, 2, 54, 55, 144
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 05, 31 May 1996 (1996-05-31) & JP 08 008850 A (HITACHI LTD), 12 January 1996 (1996-01-12) abstract --- -/--	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

14 June 2001

Date of mailing of the international search report

22/06/2001

Name and mailing address of the ISA

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Authorized officer

Holper, G

INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 15649 A (DISCOVERY COMMUNICAT INC ;HENDRICKS JOHN S (US)) 8 June 1995 (1995-06-08) page 10, line 9 - line 17 page 12, line 33 -page 13, line 3 page 14, line 13 - line 15 page 14, line 29 - line 31 page 16, line 4 - line 11 page 22, line 5 - line 14 -----	1,2
A	KUBOTA H ET AL: "TERRESTRIAL DATA MULTIPLEX BROADCASTING NEWS DELIVERY SYSTEM AND ITS TERMINAL" IEEE TRANSACTIONS ON CONSUMER ELECTRONICS,US,IEEE INC. NEW YORK, vol. 43, no. 3, 1 August 1997 (1997-08-01), pages 504-509, XP000742524 ISSN: 0098-3063 page 1, right-hand column, line 16 - line 20 -----	8

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 9-53,56-85,87-96,99-122,124-129,132-143,145-189

All independent claims, i.e. claims 1, 97, 130, 144 have been searched.

In view of the large number and also the wording of the dependent claims presently on file, which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a complete and meaningful search is impossible.

All dependent claims concern various and unrelated techniques dealing with key generation and distribution; authentication; certification; copy protection and hardware implementations of the mentioned techniques.

Consequently, the search has been carried out for those parts of the application which do appear to be clear and concise, namely :
claims 1-8, 54, 55, 86, 97, 98, 123, 130, 131, 144.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/25826

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 9-53, 56-85, 87-96, 99-122, 124-129, 132-143, 145-189
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/25826

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9945491 A	10-09-1999	EP 1070298 A WO 0021239 A	24-01-2001 13-04-2000
JP 08008850 A	12-01-1996	NONE	
WO 9515649 A	08-06-1995	US 5990927 A US 5798785 A US 5986690 A AU 1333795 A CA 2177154 A EP 0732027 A JP 9506225 T AT 197659 T AU 693148 B AU 1430695 A BR 9408211 A CA 2177153 A DE 69426308 D EP 0732031 A EP 0963116 A ES 2151590 T JP 9510327 T NZ 278185 A WO 9515658 A US 6201536 B	23-11-1999 25-08-1998 16-11-1999 19-06-1995 08-06-1995 18-09-1996 17-06-1997 15-12-2000 25-06-1998 19-06-1995 26-08-1997 08-06-1995 21-12-2000 18-09-1996 08-12-1999 01-01-2001 14-10-1997 27-04-1998 08-06-1995 13-03-2001